E&MJ METAL AND MINERAL MARKETS

WEEKLY MARKET INFORMATION ISSUED BY THE PUBLISHERS OF ENGINEERING AND MINING JOURNAL

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THIS WEEK IN THE MARKETS . . .

- **Copper prices, sales, change little this week. White Pine strike continues.**
- **Lead and zinc sales better this week. Tin prices lower. Aluminum sheet down.**
- **Lead and Zinc Emergency Committee asks Tariff Commission to raise tariffs.**

COPPER–domestic average 26.510c per lb f.o.b. ref'y

Pricings of copper in the U. S. were almost unchanged from last week. Foreign sales were better but not high. The price situation in the U. S. and outside differed little this week.

Copper Association figures on sales of refined copper to fabricators at the end of September, for September and October shipment, were almost identical with the comparable data for the end of August. They are well under the usual figures earlier in the year. There is no solid information of an increase in economic activity by the fabricators' customers though it is logical their stocks would be low. Fabricators continue to suggest their business should pick up.

Few expect a rise in prices of refined copper. Most believe prices will level off at about 24c in Europe, though some still think the price must fall before it can stick at that level.

The White Pine strike, begun early last week, continues with a loss of a little under 1,000 tons per week. White Pine is not now selling copper to the U. S. Government.

Kennecott will shut its Ray Mine for inspection from Oct. 7 to Oct. 20. It produces about 4,500 tpm.

LEAD – 14c New York

Lead sales this week were 11,325 tons, the highest since the last week of July. The market is moderately firm. GSA took about the same amount of lead this time as the previous month. Like zinc, the distribution among companies differed partly because of a strike but also offers differed by some sellers for other reasons.

The possibility of higher lead and zinc tariffs many analysts believe is high. There will be opposition, but it is not well organized. Increases will reduce further the sharply fallen incomes of some countries that buy manufactured goods from the U. S. The higher tariffs will reduce their dollar income and reduce U. S. exports, unless the U. S. lends or gives them more dollars. These countries have already indicated their objections to tariff increases. If they retaliate against U. S. goods by raising their import duties, then our exports may drop further. International relations groups, importers of ore and metal, and consumers will probably object to the duty increases.

TIN – 92.875c a lb New York

Prices in New York and London eased off during the week. Total absence of buying interest has driven the market to just above the Tin Pool floor.

ZINC – 10c East St. Louis

Zinc sales this week were good; they were the highest since the first week of August. For the month they were about the same as August. Many factors still express disappointment with zinc.

New Park Mining closed its zinc mine (see p 11). The Emergency Lead-Zinc Committee, directed by Charles E. Schwab, asked the Tariff Commission for tariff hikes. The following table shows, in cents per lb, the history of tariffs on lead and zinc. The Tariff Act of 1930 rates are under A, the Jan. 1, 1945 rates are under B, the current rates are under C and the rates recommended by the Tariff Commission in April 1954 are under D.

	A	B	C	D
Lead				
Ores	1.5	1.2	0.75	1.8
Metal	2⅛	1.7	1 1/16	2.55
Zinc				
Ores	1.5	1.2	0.6	1.8
Metal	1.75	1.4	0.7	2.1

The rates under D are the maximum permitted by law – 50% above B – and probably will again be recommended.

GSA took about the same amount of zinc–some sellers sold a little more to GSA because some offered less than in previous months.

E&MJ Average Prices Sept.-1957

Copper, domestic ref'y	26.435
Export, ref'y	23.926
LME, prompt (f)	£193.935
LME, 3-months (f)	£197.256
Lead, common, New York	14.000
Common, E. St. Louis	13.800
LME, prompt (f)	£89.836
LME, 3-months (f)	£90.455
Zinc, PW, E. St. Louis	10.000
PW, Del. (g)	10.500
LME, prompt (f)	£73.086
LME, 3-months (f)	£73.372
Silver, N. Y., per oz.	90.602
London, per oz.	78.720
Sterling exchange	278.509
Tin, N. Y., "Straits"	93.385
Gold, per oz., U. S.	$35.000
Quicksilver, N. Y., flask	$244.750
Antimony, N. Y., boxed (d)	36.590
Bulk, f.o.b. Laredo	33.000
Boxed, f.o.b. Laredo	33.500
Platinum, per oz.	$84.000
Cadmium (a) (b) (c)	170.000
Cobalt, 97% grade	$2.000
Aluminum, ingot, weighted av.	28.100
Primary pig	26.000
Magnesium ingot, average	35.250
Nickel, (e)	74.000
Bismuth, per lb.	$2.25

(a) Average based on producers' quotation. (b) Average of producers' and platers' quotation. (c) Average of quotation on special shapes to platers. (d) Domestic, 5 tons or more but less than carload lot, boxed. (e) F.o.b. Port Colborne, including U. S. duty, and Crum Lynne, Pa. (f) Average of daily mean bid and ask quotations, per long ton, at morning session of London Metal Exchange. (g) Delivered where freight from E. St. Louis exceeds 0.5c.

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E&MJ METAL AND MINERAL MARKETS

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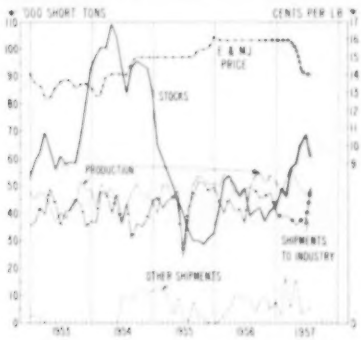
Primary Refined Lead Data



The above data, in thousands of short tons, are from the American Bureau of Metal Statistics. They refer to the total amounts of refined lead as reported by all primary refiners in the U. S. Some secondary lead is included. It is assumed "other shipments" refers to lead sent to the U. S. Government. "Shipments to industry" includes exports. Data are through August.

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August Lead Statistics Best of Summer Months

Lead perked up a bit in August, according to American Bureau of Metal Statistics data. Shipments showed a gain of about 11,000 tons and stocks dipped about 7,500 tons to 60,633, a substantial figure, but the lowest of the summer.

Shipments were the highest since January 1956, when they were 49,746 tons. Production in August was up about 1,000 tons. Shipments to the Government also increased to 6,161 tons, compared with 4,810 tons in July.

American Bureau of Metal Statistics lead data for July and August, in short tons:

	July	August
Stock, beginning	64,861	68,009
Production	47,100	48,191
Total supply	111,961	116,200
Shipments:		
U. S. consumer	38,582	49,406
Exports	560	...
(a) Other	4,810	6,161
Total	43,952	55,567
Stock at end	68,009	60,633

(a) Presumably U. S. Government.

Industrial classification of shipments:

	July	August
Cable	5,249	5,406
Ammunition	1,650	2,250
Foil	105	220
Batteries	5,332	6,165
Brass mills	566	650
Sundries	5,310	6,246
Jobbers	1,110	1,403
Unclassified (a)	19,260	27,066
Total	38,582	49,406

(a) Much of the "unclassified" lead goes into tetraethyl for gasoline, also into oxides and sheet and pipe.

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Germany's Aluminum Usage Has Tripled Since 1950

Bonn (McGraw-Hill World News): Aluminum consumption in the Federal Republic of West Germany has increased from 96,000 metric tons in 1950 to 268,000 tons in 1956.

The 1956 figure consisted of 173,000 tons primary aluminum pig and 95,000 tons remelt aluminum. These figures were published by the German Economics Ministry. A further consumption increase by an average of 6% per year is expected by industrial circles for the near future.

Per capita consumption of primary aluminum in West Germany amounted to 7.3 lb in 1956 while per capita consumption in the U. S. was 21.2 lb. In Great Britain 11 lb. In Switzerland 15.5 lb and in Sweden 10.5 lb.

Lead, Zinc Committee Asks Commission for Tariff Hike

Washington (AP): The Tariff Commission has been asked to give domestic lead and zinc mines relief from foreign competition.

The Emergency Lead and Zinc Committee filed an application asking the Commission to invoke the "Escape" clause in foreign trade agreements and raise import duties.

The committee requested an investigation and hearing on whether imports of the minerals under reduced import duty rates established by trade agreements "are causing or threatening serious injury to the domestic lead and zinc mining industry."

The escape clause may be used to raise import duties for the protection of domestic industries.

Industry spokesmen have been complaining that competition with foreign metals produced by low-cost labor has closed some domestic mines and threatens to close others.

The committee's application, filed by attorney Edward G. Martin, said President Eisenhower "has recognized that a continuously productive lead and zinc mining industry is of fundamental importance to the national security, that the lead and zinc mining industry is in a distressed condition and that it is appropriate in present circumstances to invoke the relief afforded by the escape clause.

"The President has also recognized the importance of the Tariff Commission expediting its consideration of the matter, the application said.

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Plymouth Breakdown Reveals 167½ lb of Non-Ferrous Metals

Detroit (McGraw-Hill Detroit News Bureau): A weight breakdown of the 1957 Plymouth Belvedere 4-door sedan shows a total of 167½ lb of non-ferrous metals contained in the over-all weight of 3,569.4 lb.

The figures below should closely approximate the other two low-priced cars, and could be projected for total U. S. production, if carbon steel were adjusted for the heavier weights of cars in the other price classes.

The breakdown includes automatic transmission and power steering, but not ignition components, wiper motors, fuel, oil or coolant, items delivered in finished form by outside suppliers.

Metals in pounds:	
Aluminum	77.8
Copper	45.3
Lead	28.5
Zinc	15.9
Plain carbon steel	2274.1
Plain cast iron	370.5
Alloy cast iron	195.2
Alloy steel	159.0
Malleable cast iron	71.3
Others:	
Rubber	177.7
Glass	95.4
Pads, cloth	33.7
Misc	25.0

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Miscellaneous Metals

Quotations cover wholesale lots, f.o.b. New York, unless otherwise specified.

ALUMINUM — Per lb, base price, f.o.b. shipping point, (freight allowed): 30-lb ingot, 99% plus, 28.1c; in pigs, 26c.

Base prices on aluminum ingot of higher purity: 99.75%, 27.6c, 99.8%, 28.1c; 99.85%, 29.1c.

ANTIMONY — Cents per lb, 99½% grade:

	Domestic Boxed (a) New York	Domestic Bulk (b) Laredo
Sept. 26	36.590	33.000
Sept. 27	36.590	33.000
Sept. 28	36.590	33.000
Sept. 30	36.590	33.000
Oct. 1	36.590	33.000
Oct. 2	36.590	33.000

(a) Boxed (224 lb) 10,000 lb or more but less than carload. (b) In bulk, carload, f.o.b. Laredo, boxed one-half cent extra.

BISMUTH — Per lb, in ton lots, $2.25.

CADMIUM — Per lb, delivered.

	Commercial (a) Sticks	Special (b) Shapes
Sept. 26	$1.70	$1.70
Sept. 27	1.70	1.70
Sept. 28	1.70	1.70
Sept. 30	1.70	1.70
Oct. 1	1.70	1.70
Oct. 2	1.70	1.70

(a) Base price. (b) Special shapes to platers.

CALCIUM — Per lb, in ton lots, cast in slabs and small pieces, $2.05.

CHROMIUM — Per lb contained Cr, del. 97% grade, 0.5% C, $1.29; 9-11% C, $1.38. (Usually sold as chrome-metal.)

Electrolytic chromium, commercial grade, 99% min., del. per lb: $1.29. Eff. Sept. 14 and Oct. 1.

COBALT—Per lb, rondelles or granules, in 500- or 550-lb containers, $2.00; in 100-lb containers, $2.02; less than 100-lb containers, $2.07; eff. Feb. 1, 1957. Prices ex. docks or store N.Y. or Niagara Falls.

Cobalt fines, $2.00 per lb of Co contained, f.o.b. N. Y. or Niagara Falls, standard package of 650 lb.

COLUMBIUM — No quotation.

GALLIUM — Per gram, in 1,000 gram lots, $3; 1 to 999 grams, $3.25.

GERMANIUM — Per gram:

1st Reduction:

1,000 gr lots .....40c del. to 43½c f.o.b.
10,000 gr lots ..... 38c del. to 42½c f.o.b.

Intrinsic:

1,000 gr lots ..... 44½c del. to 48½c f.o.b.
10,000 gr lots ..... 42½c del. to 45½c f.o.b.

INDIUM — Per oz troy, 99.9%, $2.25.

IRIDIUM — Per oz troy, $100@$110.

LITHIUM — Per lb 98%, $11@$14.

MAGNESIUM — Per lb, 10,000 lb lots: Pig ingot 99.8%, Velasco, Tex., 35¼c, Port Newark, N. J., 36.65c; Madison, Ill., 36.45c; Notched ingot, Velasco, 36.00c; Port Newark, 37.45c; Madison, 37.25c. Effective Aug. 13, 1956.

MANGANESE—Per lb, delivered, 95.5% Mn, 2 in. x down, carloads, bulk, 45c.; packed, 45¾c.

Electrolytic, per lb, f.o.b. Knoxville, Tenn., with freight allowed east of Mississippi, min. 99.9% Mn, carloads 34c; ton lots, 36c. Based at Marietta, Ohio, and delivered in U.S., 34c and 36c. Eff. Apr. 1, 1957. Premium for hydrogen-removed metal 0.75c, per pound.

MOLYBDENUM — Per lb, powdered carbon reduced f.o.b. Washington, Pa., $3.35, eff. Aug. 27.

NICKEL—per lb, electrolytic cathodes, f.o.b. Port Colborne, Ontario, 74c. U. S. import duty included, eff. Dec. 6, 1956; f.o.b. Crum Lynne, Pa., 74c. Other sales, regular sellers, electrolytic cathodes, f.o.b. Port Colborne and other locations, duty included, 80c@85c per lb. Sales by dealers, etc., 85c per lb. Nickel powder, about 99.7% pure, delivered U. S., 80c@85c per lb. Nickel oxide sinter, 71¼c per lb. of contained nickel, Copper Cliff, before 1c freight allowance, eff. Dec. 6, 1956.

OSMIUM — Per oz, $80@$100, nominal

PALLADIUM — Per oz troy, $21@$22½.

PLATINUM — Per oz troy, $81@$87. Our appraisal of the average price paid by consumers is $84.

QUICKSILVER — Per flask of 76 lb Sept. 26-30, $241@$244; Oct. 1-2, $237@$241.

RADIUM — Per mg radium content, $16@$21.50, as to quantity.

RHODIUM — Per oz troy, $118@$125.

RUTHENIUM — Per oz troy, $45@$55.

SELENIUM — Commercial grade, $10.50 per lb; high purity, $13.50 per lb. Eff. May 28, 1957.

SILICON—Per lb. Si, del., minimum, 97% Si, max. .51@.75% Fe, crushed, carload lots, in bulk, 23.85c; lump, 22c. Eff. 9-1-57. Hyper-pure, per lb: No. 1, $360; No. 2, $250; No. 3, $160. Solar cell grade, $100 per lb. Effective Apr. 1, 1957.

SODIUM — Per lb, carload lots, in drums, 16½c; less than carload lots, 17c.

TANTALUM — Per kilo (2.2 lb), base price. $128 for rod; sheet, $100.

TELLURIUM — Per lb, $1.65@$1.75.

THALLIUM — Per lb, $12.50.

TITANIUM — Per lb, Grade A-1, 99.3% plus, maximum 0.3% iron, $2.25 f.o.b. shipping center. (On maximum 0.5% iron, $2.) Effective June 3, 1957.

TUNGSTEN — Per lb, 98.8% minimum 1,000-lb lots, U. S. producers, $3.15 eff. Sept. 1-57. Hydrogen reduced, 99.9% plus, $4.10@$4.20. Eff. June 10.

VANADIUM — 90% grade, per lb, contained V, 100-lb lots, $3.65.

ZIRCONIUM — Per lb, sponge, $10.

Metallic Ores

Prices in tons of 2,000 lb, or "units" of 20 lb, unless otherwise stated. Short ton unit = stu. Long ton unit = ltu.

ANTIMONY ORE—Per unit of antimony contained, 50 to 55%, $2.25@$2.40; min. 60% $2.40@$2.60; min. 65% lump, $2.90 @$3.00.

BERYLLIUM ORE — Per unit BeO contained, 10-12% f.o.b. mine, Colorado $46@$48, depending on quantity.

Imported ore, per stu. of BeO, c.i.f. U.S. ports, basis 10% to 12% BeO, $36@$37.

CHROME ORE—Per long ton, dry basis, subject to penalties if guarantees are not met, f.o.b. cars N. Y., Phila., Balt., etc

Rhodesian
48% Cr_2O_3, 3 to 1 ratio .....(a)$51@$53
48% Cr_2O_3, 2.8 to 1 ratio .....(a)$48@$50
48% Cr_2O_3, no ratio .....(a)$41@$43

South African (Transvaal)
48% Cr_2O_3, no ratio.....$40@$41
44% Cr_2O_3, no ratio.....$30@$30.50

Turkish (basis 48% 3 to 1):
48% Cr_2O_3, 3 to 1 ratio, lump and concentrates .....(a)$55@$57
46% Cr_2O_3, 3 to 1 ratio, lump and concentrates .....(a)$52@$54

Pakistan (Baluchistan):
48% Cr_2O_3, 3 to 1 ratio .....(a)$52@$53

(a) Nominal. (b) Long term contracts.

COBALT ORE — Per lb of cobalt contained, f.o.b. Cobalt, Ont., Canadian Government buying prices, 9% grade, $1.30; 10%, $1.40; 11%, $1.50; 12%, $1.60. Free market, 10% ore—60c, 11%—70c, 12%—80c.

COLUMBITE — Per lb of pentoxide, basis 65% Cb_2O_5 and Ta_2O_5. Columbium-tantalum ratio 10 to 1, $1.15@$1.20. Ratio 8½ to 1, $1.00@$1.05.

IRON ORE — Per long ton, Lower Lake ports. Lake Superior ore 1957:

Mesabi non-bessemer, 51½% iron, $11.45, corrected. Old Range, non-bessemer, $11.70.

Mesabi, bessemer, 51½% iron, $11.60, corrected. Old Range, bessemer, $11.85.

Eastern ores, cents per ltu, delivered at furnaces: Foundry and basic, 56 to 62%, 17@18c.

Swedish, 60@68% (contracts), per unit, 25c plus, depending on grade, c.i.f. Atlantic ports.

Brazilian, per gross ton, 68.5% iron, f.o.b. port of shipment: $14.60; premiums for low phosphorous. Eff. with contracts Jan. 1 & Apr. 1, 1957.

MANGANESE ORE —

Indian ore, per ltu of Mn, basis 46% to 48% Mn, c.i.f. U.S. ports, import duty extra, export duty included, $1.40@$1.43, this quotation has continuity with our earlier quotes. Exclusive of export duty $1.265@$1.295.

On long-term contracts for ore from various sources, 46@48% Mn, quotations nominal.

Low iron, 48% Mn (max. 2% Fe), per ltu of Mn, duty extra, nominal.

Manganese dioxide, 84% MnO_2, long tons, bulk, crude, unground, c.i.f. U.S. ports, $110@$120.

Chemical grade, per ton, coarse or fine, minimum 84% MnO_2, carload lots, f.o.b. Philadelphia, eff. Jan. 1, 1957.

	Retail
Paper bags	$144.50
Burlap bags	$148.00
Drums	$152.50

MOLYBDENUM ORE — 90-95% MoS_2 concentrate. Per lb of contained Mo, f.o.b. Climax, Colo., $1.18 plus cost of containers; f.o.b Washington, Pa., $1.23.

TITANIUM ORE—Per gross ton, ilmenite, 59.5% TiO_2, f.o.b. Atlantic seaboard, $26.25@$30.00.

Rutile, minimum 94% concentrate, $125@$135 per st. for del. within 12 mos. Lower for more distant delivery.

TUNGSTEN ORE — Per stu of WO_3, concentrates of known good analysis, basis 65%:

Foreign ore, per stu of WO_3, nearby arrival, c.i.f. U.S. ports, duty extra; Wolfram $13.50@$14.25, scheelite $12.75 @$13.25, depending on grade. Low molybdenum scheelite higher.

U. S. mined tungsten concentrate, f.o.b. milling points, $20.00@$22.00 per stu.

U. S. mined tungsten concentrate, GSA, $55 per stu, f.o.b. milling point, subject to penalties. Suspended.

London, per ltu of WO_3, buying prices, good ore: Wolfram 113½s bid 118½s asked.

VANADIUM ORE — Per lb V_2O_5 contained, domestic, 31c, f.o.b. mine.

ZIRCON ORE (sand) — Per long ton, c.i.f. Atlantic seaboard, minimum 65% ZrO_2, $50@$51. Dom. 66% ZrO_2, st, f.o.b. Jacksonville, Fla., $50. Starke, Fla., $55.

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Metallic Compounds

ANTIMONY TRIOXIDE — Per lb, carload lots, 50-lb bags; 27@29c f.o.b. shipping point; less than carload lots, 28½@30½c.

ARSENIOUS OXIDE (arsenic trioxide), refined, white min. 99%, per lb, 5½c, in barrels carload lots delivered. F.o.b Laredo, Texas, 4½c; on N. Y. docks, 5c.

COBALT OXIDE — Ceramic grade 72½ to 73½% Co, $1.52 per lb cast of Mississippi and $1.55 per lb west of Mississippi. Grade 70% to 71%, $1.48@$1.51. Quotations are for oxide packed in 350-lb containers. Eff. Feb. 1, 1957.

COPPER SULPHATE — Per lb, in carload lots, 13.9c, crystals or diamond f.o.b. ref'y, eff. Oct. 25.

GERMANIUM OXIDE — Per gm, 27½c

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Rolled Metals, Etc.

BRASS — Cents per lb (base prices)

	Sheet	Wire	Rods
Yellow Brass	43.02	43.56	42.96
Best quality brass	44.32	44.86	44.26
Red brass 80%	45.50	46.04	45.44
Red brass 85%	46.37	46.91	46.31
Cont'l bronze 90%	47.78	48.32	47.72
Gilding metal	48.66	....	48.60

Eff. Sept. 3

COPPER — Per lb Sheets, over 20 in. wide, 49.13c, rolls 20 in. and under, 47.16c; Wire, bare, carload lots f.o.b. mills 32.355c, eff. Sept. 3, 1957.

LEAD SHEETS — Per lb, full rolled, 140 sq ft 19½c.

MONEL METAL — Per lb (base prices) Standard cold-rolled sheet, 97c; cold-rolled strip, 99c Rods, hot-rolled 80c.

NICKEL — Per lb (base prices) sheets, cold-rolled, $1.13; rods, hot-rolled, 94c

NICKEL SILVER — Per lb, sheets, 10% 59.43c; 18% 65.11c; wire and rods, 10% 63.85c.

PHOSPHOR BRONZE — Per lb, sheets 5% tin, 69.61c; wire and rods, 5% 70.11c; 10% 76.76c.

ZINC — Per lb, carload lots f.o.b. mill (base price): Sheet 24c; ribbon 20½c; plates 19c.

ZINC DIE-CASTING ALLOY — Ingot per lb, carloads lots, delivered, No. 3, 14¼c; No. 5, 14¾c.

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Aluminium Ltd. Will Mine Bauxite Deposits in Borneo

Montreal (McGraw-Hill World News): Progress on preparations for the mining of bauxite deposits located in western Sarawak on the island of Borneo, in the South Pacific, was announced here by Aluminium Ltd. of Montreal and E. Ott, representing the Ott group, the joint shareholders of Sematan Bauxite Limited.

Shipments of the ore are expected to begin during 1958 with an anticipated yearly production of about 175,000 tons. The bauxite, which is of good grade, will go principally to Japan.

Deposits in Sematan are believed capable of producing 2.5-million tons, and other deposits are believed to lie in the vicinity.

Mining equipment to be used will be purchased largely in Japan, and the new washing plant should be installed at Sematan in western Sarawak by the end of 1957.

Southeast Asia is a familiar region to Aluminium Ltd., since it has had interests in Malaya for 18 years, has carried out exploration work there since 1939, and is now mining bauxite through a subsidiary, Southeast Asia Bauxites Limited, in the state of Johore.

•

Australians to Organize Mineral Sands Industry

Melbourne (McGraw-Hill World News): Mineral sands producers from the states of New South Wales and Queensland in Australia have formed the Australian Association of Mineral Sands Producers to deal with matters affecting the industry as a whole.

D. G. Cummins of Associated Minerals Consolidated Ltd. has been elected president and L. W. Doggett of Brisbane, Queensland has been appointed secretary.

The Australasian Bureau of McGraw-Hill World News understands that the new association will be used in an attempt to lift up the prices of mineral beach sands and particularly rutile. The absence of large-scale purchasers is continuing to worry the Australian producers who will have their government's support in attempts to obtain better prices for their output through controlled disposal of stocks.

On the other hand, it is doubtful whether these attempts would be adequate to obtain anything but a very small increase in ruling prices. The persistent refusal of purchasers to sign longer-term contracts appears to influence the market.

Big Western Australian producers of ilmenite have not been invited to join the new association.

•

Deliveries To Malay Tin Smelters About Unchanged

Kuala Lumpur (McGraw-Hill World News): Deliveries of tin-in-concentrates from the mines of the Federation of Malaya to Singapore, Penang and Butterworth during the month of August were 5,254 tons compared with 5,340 tons in July.

Cumulative total for the first seven months this year amounted to 39,894 tons compared with 41,660 tons for the same period last year. Of the August deliveries Perak accounted for 3,232 tons and Selangor 1,618 tons.

•

Electromet Announces Changes In Ferrochrome, Ferrosilicon Price

Electro Metallurgical Co. division of Union Carbide Corp., has announced price adjustments on some chromium and silicon alloys, effective Oct. 1. The adjustments reflect recent cost increases for labor, freight and raw materials.

High-carbon ferrochrome is being increased 1c per lb of contained chromium. "Simplex" low-carbon ferrochrome will be increased 2c per lb of chromium as previously announced. The price of 50% ferrosilicon is up 1.2c per lb of contained silicon. Ferrochrome-silicon will now be sold on the basis of the chromium plus the silicon contained in the alloy. Prices for regular low-carbon ferrochrome have been revised to cover two new carbon grades, namely, max. 0.025% and 0.05% carbon and at the same time other carbon grades have been eliminated.

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Non-Metallic Minerals

Prices received vary and depend upon the characteristics of the commodity. Hence quotations can serve only as a general guide to the prices obtained by producers and dealers for their product.

Tons of 2,000 lb unless otherwise noted. Short ton–st; long ton–lt.

ASBESTOS—Per st, f.o.b. mines Quebec, U. S. funds: Crude No. 1 $1,400@$1,725; Crude No. 2 $750@$1,100.

Spinning fibers: 3-F $565@$650; 3-K $460@$485; 3-R $408@$410; 3-T $380@$385; 3-Z $350@$353.

Shingle stock, 4-K, $190@$210; Paper stock, $114@137; Waste, $82@$84; Shorts, $28@$75.

Per st, f.o.b. Vancouver, B.C., U. S. funds eff. Jan. 1, 1957: No. 1 crude $1,450; AAA fiber $750; AA $650; A $470; AC $310; AK $210.

Per st, f.o.b. Morrisville, Vt.: Spinning fiber, $353@$383, shingle fiber, $172@$190; paper fiber, $114@$145; waste, stucco or plaster, $82; refuse or shorts, $39@$72.

BARYTES — F.o.b. cars

Georgia: Barytes ore, crude, jig and lump, $18 per net st; beneficiated, $21 per net st, in bulk, $23.50@$25 in bags.

Missouri: Per st, water ground and floated, bleached, $45@$49, carlots, f.o.b. works. Crude ore, minimum 94% $BaSO_4$, less than 1% iron, $16@$18. Crude oil well drilling, min. 4.3 specific gravity, bulk, st, $18. Some restricted sales, $11.50. Ground, oil well grade, $26.75.

Foreign, crude oil well drilling, minimum 4.25 specific gravity, bulk, st c.i.f. Gulf ports, $16@$18.

Canada: Crude, in bulk, f.o.b. shipping points, $11 per lt; ground, in bags, $16.50 per st.

BAUXITE — Per lt. Domestic ore chemical, crushed and dried, 55 to 58% Al_2O_3, 1.5 to 2.5% Fe_2O_3, $8.00@$8.50, f.o.b. Alabama and Arkansas mines. Other grades, 56 to 59% Al_2O_3, 5 to 8% SiO_2, $8.00@$8.50, f.o.b. Arkansas mines. Pulverized and dried, 56 to 59% Al_2O_3 8 to 12% SiO_2, $14@$16, f.o.b. Arkansas mines. Abrasive grade, crushed and calcined, 80 to 84% Al_2O_3, $17, f.o.b. Arkansas mines. Crude (not dried) 50 to 52%, $5.00@$5.50, f.o.b. Arkansas mines.

Imported bauxite, calcined, crushed (abrasive grade) 86% min. Al_2O_3, $19.95 per lt, f.o.b. port of shipment, Br. Guiana, Refractory grade bauxite, $25.40.

Approx. 58% Al_2O_3, and 8% silica f.o.b. vessels Brit. Guiana $7.14 per lt according to quality.

CORUNDUM—Per st, crude, c.i.f. U.S. ports, $100@$120, nominal.

FELDSPAR—per st, f.o.b. point of shipment, N. C., bulk: 200 mesh, $18.50; 325 mesh, $22.50; glass, No. 18 grade, $12.50; semi-granular, $11.75.

FLUORSPAR — Metallurgical grade, effective CaF_2 content, per st, f.o.b. shipping point Illinois and Kentucky, (the higher prices are for spot lots):

	Short Ton
72½%	$37@$41
70%	$36@$40
60% plus	$33@$36.50
Pellets, 65%	$28@$33

Acid grade concentrates, per st, bulk, carload lots:

F.o.b. Illinois-Kentucky, and Colorado $50; some sales at $55. In bags, $4@$5 extra. Eff. Dec. 1, 1956.

Ceramic grade, 35% CaF_2, $45@$48; 93 to 94% CaF_2, calcite and silica variable; Fe_2O_3 0.14%, $43@$46 per st, in bulk, f.o.b. Illinois-Kentucky. In 100-lb paper bags, $4@$5 extra. Eff. Dec. 1, 1956.

European fluorspar c.i.f. U.S. ports, duty paid, per st: Metallurgical grade, 72½% effective CaF_2 $33@$34; acid grade, $50.00@$52.50, nominal.

Mexican fluorspar, f.o.b. border, metallurgical, 72½% effective CaF_2 content, all rail, duty paid, $25.25@$25.75 per st; barge, Brownsville, Tex., $27.50.

GRAPHITE — Per lb, carload lots, f.o.b. shipping point: Crystalline flake, natural; 86 to 88% C, crucible grade, 13c; 96% C, special and dry usage, 22c; 94% C, normal and wire-drawing, 19c; 98% C, special for brushes, etc., 26½c.

Amorphous, natural, for foundry facings, etc., up to 85% C, 9c.

Madagascar, c.i.f. New York, "standard grades 85 to 87% C," $235 per st; special mesh $260; special grade 99% C, nominal.

Amorphous graphite, Mexican, f.o.b. point of shipment (Mex.) per metric ton $9@$18 depending on grade.

KYANITE — Per st f.o.b. point of shipment, Va. and S.C., 35 mesh, carload lots, in bulk $29; in bags $32. For 200 mesh, in bags, carload lots, $40.

Imported kyanite, 60% grade, in bags, c.i.f. Atlantic ports $76@$81 per st.

MAGNESITE — Per st, f.o.b. Chewelah, Wash., dead burned grain, in bulk $46; in bags $52@$54.

MICA — Prices prevailing in the North Carolina district for clear sheet mica, per lb, follow:

Size	Per Pound
1½ x 2 inch	.70 to $1.10
2 x 2 "	$1.10 to $1.60
2 x 3 "	$1.60 to $2.00
3 x 3 "	$1.80 to $2.30
3 x 4 "	$2.00 to $2.60
3 x 5 "	$2.60 to $3.00
4 x 6 "	$2.75 to $4.00
6 x 8 "	$4.00 to $8.00

Punch mica, 7c@12c per lb, according to size and quality.

Stained or electric sheet mica is being sold at approximately 10 to 20% lower than for clear.

North Carolina, wet ground, $140@$155 per st, depending on fineness and quantity. Dry ground, $32.50@$70. Scrap, $25@$30, depending on quality.

Madagascar sheet mica first quality high heat, duty paid, New York, per lb: Grade 7 (below 1 sq in.) 50c; Grade 6 (1 to 1½) 85c; Grade 5 (3 to 6) $1.20; Grade 4 (6 to 10) $1.50; Grade 3 (10 to 14) $1.90.

MONAZITE — Per lb, c.i.f. U. S. ports, 55% total rare earth oxides, including thorium, massive, 14c. Sand, 55% grade, 15c; 66%, 18c; 68%, 20c, nominal.

OCHER — Per st, f.o.b. Georgia mines, $26.50@$32 in 100-lb paper bags.

F.o.b. Virginia, dark yellow, 300 mesh, 60% ferric oxide, in bags, $24.50@$25.50.

PHOSPHATE—Per lt, f.o.b. mines: Florida, pebble; 77 to 76%, $7.00; 75 to 74%, $6.00; 72 to 70%, $5.00; 70 to 68%, $4.35; 68 to 66%, $3.95.

POTASH — Per stu, f.o.b. mines, muriate, 34½c, basis 60% K_2O. Imported, 58c ex vessel U. S. ports. Sulphate of potash 67c stu, f.o.b. mines. See *M&MM* 6-20-57, p. 12.

PYRITES — Spanish 48% sulphur c.i.f. U.S. ports, not quoted.

Domestic and Canadian pyrites, per lt, nominal at $9@$11, delivered to consumer's plant.

PUMICE STONE — per lb f.o.b. New York or Chicago, in barrels, powdered 3c@5c; lump, 6c@8c.

QUARTZ ROCK CRYSTALS—For fusing, all sizes, $100@$150 per st. Prisms for piezo-electrical and optical use $4.50 @$50 per lb, according to size and grade.

SILICA—Per st, air-floated, 92 to 99½% through 325 mesh, in bags, $22@$35. Glass sand, f.o.b. producing plant, $1.50@$5 per st, bulk, depending on grade, etc.

SULPHUR — Per lt, f.o.b. U. S. mines eff. Sept. 18: bright $23.50; dark $22.50. For U. S. buyers, f.o.b. vessel, Galveston, $25. For foreign buyers, f.o.b. vessel, Galveston, $25–$28. Mexican, f.o.b. mines dark, $22.40 to $31.60 for internal use; export, f.o.b. vessel, $24 to $26, dep. on grade.

TALC — Per st carload lots, f.o.b. works, containers included unless otherwise specified: New Jersey: Mineral pulp, ground, $10.50@$12.50, bags, extra.

New York: Double air-floated, short fiber, 325 mesh, $18@$20.

Vermont: 100% through 200 mesh, extra white, bulk basis, $12.50; 99½% through 200 mesh, medium white, $11.50@$12.50. Packed in paper bags, $1.75 per st extra.

Virginia: 200 mesh, $10@$12; 325 mesh, $12@$14; crude, $5.50.

Georgia: 98% through 200 mesh, gray, $10.50@$11; white, $12.50@$15, packed in paper bags.

TRIPOLI — Per st, paper bags, minimum carload 20 tons, f.o.b. Missouri: Once ground through 40 mesh, rose and cream colored, $50.00. Double ground through 110 mesh, rose and cream, $52.00; air-floated through 200 mesh, $55.00.

VERMICULITE — Per st f.o.b. mines, Montana, $9.50@$18.00. South African crude, $30@$32, c.i.f. Atlantic ports.

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Union Carbide Plans Mexican Graphite Mine

A new graphite electrode plant being built near Monterrey, Mexico by Electrodos Nacionales, S. A., an affiliate of Union Carbide Corp., is scheduled to start production in 1958.

The new factory will serve the electric-furnace steel, ferro-alloy and electro-chemical industries as well as provide materials essential to the nuclear power development of Mexico. Plant capacity will be capable of meeting Mexican requirements for these graphite products for a number of years to come. It is anticipated that a portion of the production will be exported, thus improving Mexico's foreign exchange position.

The 200-acre plant site of Electrodos Nacionales, S. A. is located in Apodaca, a small town approximately nine miles from Monterrey. The company has made arrangements to generate its own electric power and to use natural gas available locally for fuel. Ample water supply is assured from the company's existing wells at Apodaca and through its participation in the Industrial Water Project of Monterrey. Orders are now being placed for the heavy electrical equipment needed for the plant in order to meet the scheduled opening in 1958.

Under its technical assistance agreement with Union Carbide, Electrodos Nacionales, S. A. will not only have the most modern and efficient production facilities yet designed for the manufacture of graphite electrodes, but will also have access to the extensive continuing research of Union Carbide in this field.

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Bauxite Output Unchanged In Second Quarter

During the second quarter of 1957, domestic production of bauxite totaled 369,909 long tons which was almost the same as the production of the previous quarter, according to the U. S. Bureau of Mines. The first half production was 738,118 tons, a 23% decrease when compared to the production of the first half of 1956.

Production and imports for consumption of bauxite in the United States, 1952-56 totals and 1956-57 by quarters, in long tons:

	Total U. S. Mine Output	Imports for consumption	Total new supply for consumption
1952	1,667,047	3,461,901	5,128,948
1953	1,579,739	4,230,573	5,810,312
1954	1,994,896	4,988,243	6,983,139
1955	1,788,341	4,882,373	6,670,714
1956	1,743,344	5,670,013	7,413,357
1956:			
Jan.-Mar.	490,991	1,344,072	1,835,063
Apr.-June	470,816*	1,400,017	1,870,833
July-Sept.	357,320	1,438,240	1,795,560
Oct.-Dec.	424,217	1,487,684	1,911,901
1957:			
Jan.-Mar.	368,209	1,434,013	1,802,222
Apr.-June	369,909	1,616,271	1,986,180

E&MJ QUOTATIONS

Daily Prices of Metals

Sept.-Oct.	COPPER ELECTROLYTIC Domestic Refinery	Export Refinery	LEAD New York	St. Louis	ZINC (b) Delivered (a)	East St. Louis	ALUMINUM Primary Pig 99%	TIN Straits New York
26	26.550	23.450	14.000	13.800	10.500	10.000	26.000	93.625
27	26.600	23.825	14.000	13.800	10.500	10.000	26.000	93.875
28	No Market	23.825	14.000	13.800	10.500	10.000	26.000	93.875
30	26.525	23.975	14.000	13.800	10.500	10.000	26.000	93.375
1	26.525	23.850	14.000	13.800	10.500	10.000	26.000	93.125
2	26.350	24.225	14.000	13.800	10.500	10.000	26.000	92.875
Averages	26.510	23.858	14.000	13.800	10.500	10.000	26.000	93.458
Calendar Wk. Avgs.								
Sept. 23-28	26.540	23.779	14.000	13.800	10.500	10.000	26.000	93.667

(a) Prime Western Zinc sold on delivered basis at centers where freight from East St. Louis exceeds one-half cent a pound.

The above quotations are our appraisal of the major United States markets, based on sales reported by producers and their agencies. They represent payments received by producers for the product. They are reduced to the basis of cash, New York or St. Louis, as noted. Prices in cents per pound.

Copper, lead and zinc quotations are based on sales for prompt and future deliveries; aluminum weighted average prices are based on estimated sales and announced prices; tin quotations are for prompt delivery only.

COPPER prices, domestic, in the trade are quoted on a delivered basis, that is, delivered at consumer's plants. As delivery charges vary with the destination, the figures shown above are net prices at refineries on the Atlantic seaboard. Beginning Jan. 2, 1957, the average differential between delivered and f.o.b. prices is taken as 0.400c per lb.

COPPER quotations, foreign or export, reflect prices obtaining in the open market and are based on sales in the foreign market reduced to the c.o.o. refinery equivalent, Atlantic seaboard. On f.a.s. transactions, eff. Jan. 2, 1957, we deduct 0.125c, for lighterage, etc., to arrive at the f.o.b. refinery quotation.

COPPER quotations are for ordinary forms of wirebars and ingot bars. The premiums on special shapes, effective in some instances on deliveries beginning Sept. 1, 1955, are: Standard ingots 0.25c per pound; slabs 0.55c and up, cakes 0.6c and up, depending on weight and dimensions; billets 1.725c and up, depending on dimensions and quality. Discount on cathodes 0.125c to 0.15c per pound.

ZINC quotations reflect sales of the Prime Western grade as well as sales of other grades when sold on a Prime Western basis. (b) **Zinc premiums** . . . obtaining over Prime Western zinc in the East St. Louis market on the following grades, in cents per pound: **Selected 0.10c; Brass Special 0.25c; Intermediate 0.5c. High Grade** zinc sold on contract, delivered to the consumers' plants, commands a premium of **1.35c** per pound over the East St. Louis basis for Prime Western; **Special High Grade** premium or differential is **1.75c** per pound effective Dec. 1, 1955.

LEAD quotations are for the common grade, and are based on sales of domestically refined metal sold to domestic consumers. The differential on sales in the Chicago district is 15 points under New York, for California 20 points under New York, for New England add 7½ points to the New York basis. Corroding grade commands a premium over common lead of 10 points.

ALUMINUM quotations refer to primary pig, 99%, delivered to consumers. The U. S. primary producers as well as the major exporter of primary aluminum to the U. S., quote prices delivered to consumers in the U. S. The weights are estimated on the basis of daily average primary capacity in those cases where daily sales or shipments are not available. Ingot sales by primary producers, reduced to the pig price, are included in calculating the quotation. The premium on standard ingots, 99+% is 2.1c per lb.

Note: The daily quotations for copper, lead and zinc are weighted averages of sales reported to *E&MJ*; weekly averages are arithmetical averages of the daily quotations; monthly averages are the arithmetical averages of the daily quotations.

Silver, Gold, and Sterling Exchange

Sept.-Oct.	Silver N.Y.	London	Sterling Exchange	London Gold (a)
26	90.625	78.750d.	278.8812	250s. 5½d.
27	90.625	78.750d.	279.1562	250s. 6¼d.
28	Not Quoted			
30	90.625	78.750d.	279.5312	250s. 3½d.
1	90.625	78.750d.	279.5000	250s. 1¾d.
2	90.625	78.750d.	279.4375	250s. 3d.
Av.	90.625	—	279.301	—
Calendar Wk. Avgs.				
Sept. 23-28	90.625	—	278.987	—

(a) Open market

The daily silver quotation reported by Handy & Harman, in cents and fractions of a cent per troy ounce, is the price paid by Handy & Harman in settlement for silver contained in unrefined silverbearing materials submitted to them for refining. It is determined on the basis of offers of bar silver .999 fine as made to Handy & Harman for nearby delivery at New York by regular suppliers in quantities sufficient to meet daily requirements, and it is usually one quarter cent below the price at which such offers are made.

The Treasury's purchase price of newly mined domestic silver was established at 90.5c per troy ounce, 1000 fine, effective on July 1, 1946 under an amendment to the Silver Purchase Act of July 6, 1939.

London silver quotations are in pence per troy ounce, basis .999 fine.

London gold quotations are per troy ounce, basis 1000 fine.

Sterling, in cents, noon buying rate for cable transfers as certified by the Federal Reserve Bank of New York, for customs purposes.

Aluminum Alloys Secondary

Sept. 26 — Oct. 2

No. 13	25.58c
No. 43	25.62c
No. 360	None
No. 380	22.32c

The secondary aluminum alloy prices are weighted average prices calculated from reports by secondary aluminum producers of the prices and quantities of their sales.

London Metal Exchange

Sept.-Oct.	COPPER Cash Bid	Cash Asked	3 Mo. Bid	3 Mo. Asked	LEAD Current Month Bid	Current Month Asked	3 Mo. Bid	3 Mo. Asked	ZINC Current Month Bid	Current Month Asked	3 Mo. Bid	3 Mo. Asked	TIN Cash Bid	Cash Asked	3 Mo. Bid	3 Mo. Asked
26	191½	192	195	195½	89	89¼	90	90¼	71¾	71¾	72½	72¾	740½	741	740	740½
27	193	194	196½	197	89½	90	90½	90¾	72¼	72½	73	73¼	750	752½	743	743½
30	190½	191	194	194½	88¾	89	90¼	90¾	70¾	71	72¼	72½	740	742	739	739½
1	192½	193	195¾	196¼	89	89¼	89¾	90	71	71¼	71¾	72	739	739½	737	737¼
2	194	194½	197	197¾	88¾	89	89¾	90	70¾	71	71¾	71½	736½	737	735½	736

Prices are for the official a.m. session in pounds sterling per ton of 2240 lb. Copper basis wire bars, lead 99.97%, zinc 98% and tin min. 99.75%.

THIS WEEK'S BUSINESS INDICATORS

	Latest Week	Preceding Week	Month Ago	Year Ago	Net Change Year Ago
Steel Rate (% of capacity in operation)	(d)82.4	(a)82.2	81.0	101.8	−19.4
Steel Ingot Production, thousands of tons	(d)2,108	(a)2,105	2,073	2,506	398
Automobile Production (cars and trucks)	(d)61,439	(a)68,875	142,982	59,092	+2,347
Electric Power Output (millions kwh.)	11,991	11,947	12,023	11,482	+509
Engr'g Const. Awards, 4-week daily av., in thousands (c)	$52,764	$54,222	$61,751	$71,985	+$19,221
Federal Reserve Index of Industrial Production (e)	(d)144 Sept.	.....	144	144	.....
E&MJ Index of Nonferrous Metal Prices (e)	177.56 Sept.	.....	182.59	227.42	−49.86
All Commodities, Bureau of Labor Statistics (e)	(d)118.0 Sept.	.....	118.3	115.3	+2.7

(a) Revised. (b) 100 is composite of 1922-3-4. (c) From Eng. News-Record. (d) Preliminary. (e) Base period 1947-49

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Ferroalloys

(on contract, eff. 2 Jan. 1957, unless otherwise indicated)

FERROCHROMIUM — per lb contained Cr; carload lots, lump, bulk; f.o.b. dest. cont. U. S. —
High Carbon (4-9% C, 65-70% Cr) 28.75c
Low Carbon (0.10% C, 67-72% Cr) 38.50c Eff. Oct. 1, 1957
Special (0.01% C, 63-66% Cr) 37.75c Eff. Oct. 1, 1957

FERROCOLUMBIUM—per lb contained Cb; ton lots, lump (2 in) packed; f.o.b. dest. cont. U. S. —
(50-60% Cb, max 0.40% C, max 8% Si) $4.90, eff. May 17.

FERROMANGANESE: Standard — per lb; carload lots, lump, bulk; f.o.b. sh pt
(74-76% Mn) 12.25c eff. Sept. 19, 1957.
Medium Carbon—per lb contained Mn; carload lots, lump, bulk; f.o.b. U.S. —
(80-85% Mn, 1¼-1½% C) 25.50c
Low Carbon—basis as for Med. Carbon—
(85-90% Mn, Max, 0.07% C) 35.10c
Changes Dec. 15 and Jan. 1.

FERROMOLYBDENUM — per lb Mo; 5,000 or more lb lots; f.o.b. shipg pt—
(58-64% Mo) powdered, packed $1.74
Other sizes, packed $1.68.
Calcium Molybate (Ca0 Mo03) lump, packed $1.42.
Technical Molybdic Trioxide (Mo03) lump, bagged $1.38; lump, canned $1.39; briquets packed $1.41.

FERROPHOSPHORUS — per gross ton; carload loats, lump, bulk (max 6 in.); f.o.b. shipg pt (equivalent to Tenn.)—
(23-26% P) $110 plus $4 per 1% above or below 24%, eff. Jan. 2

FERROSILICON—per lb contained Si; carload lots, lump, bulk; f.o.b. shipg pt—
(50% Si) 14.20c. Eff. Oct. 1, 1957

FERROTITANIUM: Low Carbon — per lb contained Ti; ton or more lots, lump (½ in. +), packed; f.o.b. dest. NE U.S.—
(40% Ti, max 0.10% C) $1.35
(25% Ti, max 0.10% C) $1.50
Medium Carbon—per net ton; carload lots, lump, packed; f.o.b. dest. NE U.S.—
(17 to 21% Ti, 3-5% C) $290-5, eff. Apr. 1.
High Carbon—basis as for Med. Carbon—
15 to 19% Ti, 6 to 8% C) $240-5, eff. Apr. 1, '57.

FERROTUNGSTEN — per lb contained W; 5.000 or more lb lots, lump (¼ in.), packed; f.o.b. dest. cont. U.S.—(70-80% W) $2.15. Nominal.

FERROVANADIUM — per lb V; carload lots, var. sizes, packed; f.o.b. U.S. —
(50-55% V) Open Hearth $3.20, Crucible $3.30, High Speed $3.40.
Eff. 9-14-'56 and 10-1-'56.

SILICOMANGANESE—per lb; carload lots, lump, bulk; f.o.b. shipg pt
(1.5% C max, 18-20% Si) 12.80c
(2% C max, 15-17½% Si) 12.60c
(3% C max, 12-14½% Si) 12.40c
Eff. 3-19-1957.

SPIEGELEISEN—per gross ton; carload lots, lump, bulk; f.o.b. Palmerton Pa —
3% max Si, 16-19% Mn $100.50
3% max Si, 19-21% Mn $102.50
3% max Si 21-23% Mn $105.00
Eff. on orders of Jan. 7.

New Refinery Will Increase American Boron Output By 30%

American production of boron will be increased 30% with the opening on Nov. 14 of the new U. S. Borax & Chemical Corp. open pit mine and refinery at Boron, Calif.

This $20-million project, which has required more than two years to complete, will produce approximately 70% of the free world's total supply.

The new operation represents the first time borax has ever been mined by the open pit method. The huge 175 ft deep pit from which 9-million tons of earth has been removed, exposes the largest deposit of sodium borate known in the world and permits virtually a 100% recovery of ore.

More than 2,000 employees and guests from all parts of U. S. and abroad are expected to attend the opening and dedication ceremonies when the plant is formally inaugurated. James M. Gerstley, president of the company, and top ranking government officials will participate in the program.

Increased demand for boron from industry has developed rapidly in recent years as a result of research carried on by many industries. At one time the company's sole product, 20-Mule Team borax, was simply used as a household cleanser.

Today boron has become an important ingredient in the manufacture of many familiar products — pharmaceuticals, porcelain enamels, plastics, steel, glass, ceramic glazing, agricultural chemicals, flameproofing, fire-extinguishing, canning and gasoline additives.

It also appears that the basic chemical element boron may become an important factor in national defense through its use in the production of a new high energy fuel for jet engines.

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July U. S. Lead Imports

U. S. lead imports in July compiled by the U. S. Bureau of the Census, courtesy American Bureau of Metal Statistics, in short tons:

	1957		
	May	June	July
Ore:	12.099	20.061	18.015
Canada	1.513	1.981	1.808
Mexico	139	520	285
Guatemala	878	949	843
Honduras	504	187	510
Bolivia	964	406	1.439
Peru	5.179	5.094	6.161
Union of South Africa	...	6.194	4.999
Australia	2.721	4.564	1.690
Philippines	126	128	139
Others	75	38	141
Refined:	22.282	28.002	25.224
Canada	1.403	1.738	3.086
Mexico	4.252	7.053	5.422
Peru	1.812	762	3.953
Denmark	...	...	76
Spain	909	358	...
United Kingdom	...	551	...
Yugoslavia	6.108	8.645	3.031
Australia	7.798	8.895	9.436
Others	...	...	220
Total imports	34.381	48.063	43.298

Total U. S. exports of lead in July were 644 tons, well above the 210 tons reported in June. Exports were made up of 584 tons of refined lead and 60 tons of ore.

SLAB ZINC

★ ELECTROLYTIC
Special High Grade
High Grade
Continuous Galvanizing Line Grades

★ FIRE RETORT
High Grade
Intermediate
Continuous Galvanizing Line Grades
Brass Special
Select
Prime Western

American Zinc sales company

Distributors for AMERICAN ZINC, LEAD & SMELTING COMPANY
Columbus, Ohio ▵ Chicago ▵ St. Louis ▵ New York ▵ Detroit ▵ Pittsburgh

July U. S. Copper Imports

U. S. copper import data for July, as compiled by the Bureau of Census, courtesy American Bureau of Metal Statistics, in short tons:

	1957		
	May	June	July
Ore:	8.185	11.640	9.963
Canada	1.805	1.276	1.845
Mexico	405	858	472
Cuba	2.172	1.154	183
Bolivia	705	559	102
Chile	518	998	1.483
Peru	453	1.383	1.038
Cyprus	2.123	...	2.195
Philippines	2	3.227	1.089
Union of South Africa	...	2.129	1.556
Australia	...	56	...
Other countries	2	...	...
Blister:	19.892	19.083	27.729
Mexico	2.211	2.504	3.471
Chile	12.088	14.865	20.077
Peru	...	...	2.202
Northern Rhodesia	1.623	28	980
Union of South Africa	500	...	999
Australia	3.470	1.686	...
Refined:	19.687	9.064	14.386
Canada	7.945	6.200	6.985
Mexico	...	...	251
Chile	1.288	500	2.648
Peru	4.864	1.260	1.772
Germany (West)	...	...	1
Belgian Congo	949	...	364
Northern Rhodesia	4.641	1.104	2.265
Total imports	47.764	39.787	52.078

Total exports in July were 25,547 tons, compared with 25,547 tons in June. Of the total, all but 1,127 tons were refined.

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Lead and Zinc Losses Cause New Park Shutdown

New Park Mining Co. has shut down operations at its Mayflower Mine, one of Utah's principal lead and zinc producers, because of operating losses. The company said dumping of foreign lead and zinc was responsible.

W. H. H. Cranmer, president of the company, said the mine was closed on Sept. 27 and there was little chance it would be opened before next year, and then only if the Government gives some aid to the domestic minerals market.

The Mayflower Mine has been producing about 6,000 tons of ore monthly.

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Brass Shipments Up 3,000 Tons

The combined volume of shipments of Ingot Brass and Bronze for August was 19,654 tons as compared with 16,695 tons shipped in July.

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July U. S. Zinc Imports

U. S. imports of zinc in July as compiled by the U. S. Bureau of Census, courtesy American Bureau of Metal Statistics, in short tons:

	1957		
	May	June	July
Ore:	47.619	41.633	36.769
Canada	13.672	13.487	9.170
Mexico	16.326	12.057	16.196
Cuba	38	48	43
Guatemala	523	1.245	1.438
Honduras	161	141	577
Bolivia	524	698	42
Peru	10.114	10.017	8.122
Union of South Africa	5.635	866	611
Australia	247	3.059	66
Philippines	9	6	13
Others	370	9	431
Refined:	20.375	23.406	21.899
Canada	7.051	5.753	8.978
Mexico	1.764	2.708	1.044
Peru	1.830	1.350	3.213
Belgium	2.488	4.176	2.580
Germany (West)	220	1.221	561
Italy	635	1.465	1.158
Netherlands	280	560	...
Yugoslavia	220	889	165
Belgian Congo	3.759	2.986	4.046
Australia	1.680	1.120	...
Japan	448	618	154
Others	...	560	...
Total imports	67.994	65.039	58.608

Total U. S. zinc exports in July were 3,769 tons, up sharply from the June figure of 821 tons. All exports were refined metal — most of it going to the United Kingdom.

Mineral and Ore Markets

Chrome ores continue to be in a most uncertain state. Heavier shipments of Russian chrome ores are due to enter the U. S. via Canada. The total appears to be enough to definitely affect the market situation in the U. S. The Russian ore in most cases runs about 49% Cr_2O_3; some of it is as low as 48% and some as high as 51%. The ratio in some cases is 3 to 1, but often 2.9 or even 2.8. Generally it is classifiable as hard lumpy, though often it contains 25% fines – it has been known to contain one third fines.

Many factors indicate the chrome ore market is weak and some suggest that a sizeable drop in prices would bring in consumers. They describe the consumer situation as comfortable. Others believe some large suppliers have sold out for much of 1958 and therefore are asking high prices. There is some feeling ore they sold went to equipment suppliers and will reappear on the market. Doubtless a good amount of the Turkish high grade ore has been sold ahead but there seems little agreement about its being resold. But importers continue to get many offers and some offers come from supplying firms with which they have done business for years. If the lira is devalued, the chrome ore market may be affected.

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Columbium-tantalum prices are down. Some factors say a drop in sales and consumption of columbium alloys and ferrocolumbium has cut the market rather sharply.

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Antimony ores were sold in a little better volume in Europe the past week or two, according to some traders. They suggest there is some unevenness in prices of ore from various sources. This may be normal though for a market that has been going through considerable change.

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Manganese ores are as slow as ever. Indians are still asking high prices for the high grade ores. Boats still have much trouble getting into Indian ports. We are told as much as $2 per ton demurrage must be paid per ton owing to the long waits in port. The scarcity of high grade ores some factors say does not indicate a real drop in reserves in the ground in India; it is a combination of internal and external shipping problems and difficulty growing out of the Indian State Trading Corp. movement into the ore business. Manganese ore with less than 2% iron is selling at 5c to 10c above the 8% iron manganese ore. Some factors say the "premium" varies considerably and depends much on negotiation.

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Quicksilver the last four market days of September has been figured in the monthly average at $241-44 per flask, large lots, N. Y. The price beginning Oct. 1 is quoted at $237-41. The market is dead, racked by rumors and subject to constant price slashes. It would appear some sellers are intent on driving the price down to the floor. Good sales are scarce. Some have been made here at $237. Rumors suggest prices on the West Coast have been much lower; at any lower level, some feel, shipments to the Government would begin. Some factors believe metal will start in that direction several dollars above the Government price of $225 owing to possible freight and sales commission savings.

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A Custom Smelter Copper Price

Sept. 26 – Oct. 2

The following prices are computed by *E&MJ Metal and Mineral Markets* from data on flat price and average price sales reported by the American Smelting & Refining Co. They refer to electrolytic copper in standard shapes.

Delivered consumers' plants...26.250c lb

F.O.B. refinery .....25.850c lb

They are for sales in the U. S. market and are adjusted to the nearest one-eighth cent. A one-quarter cent deduction for selling commission has been made beginning Sept. 26; previously a one-eighth cent deduction was made.

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Refractories

CHROME BRICK – Per ton f.o.b. shipping point: Chemically bonded Balt. $105, Calif. $115, burned, $99.

FIRECLAY BRICK–Per M, first quality, $128., Missouri, Kentucky, Pennsylvania; second quality, $114. Ohio, No. 1, $120; No. 2, $103.

MAGNESITE – Brick, per ton f.o.b. works, 9-in. straights, $121; chemically bonded, $116.

SILICA BRICK–Per M, Pennsylvania, $155; Alabama, $150; Illinois, $160.

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Iron, Steel, and Coke

PIG IRON – Per gross ton Valley furnaces: Bessmer, $67.00, basic, $66.00 and No. 2 foundry $66.50.

STEEL – Per net ton, f.o.b. mill, Pittsburgh, billets and slabs, $77.50; Bars per 100 lb, $5.525; plates and structural shapes, $5.10@$5.275.

STEEL SCRAP – Per gross ton, delivered Pittsburgh, No. 1 heavy $44@45 No. 2 heavy $38@39. Cleveland, No. 1 heavy $39½@40½, No. 2 heavy $33½@34½.

COKE – Per ton, Connellsville furnace, $15.25; foundry, $18.25.

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Lead Average (Monterrey)

The net price realized by the American Smelting & Refining Co. on all of its sales of Mexican pig lead, including metal sold for consumption in Mexico, during the week ended Sept. 28, 1957, was 10.59c (U.S.) per lb. f.o.b. refinery Monterrey, Mex.

Smelters' Aluminum Alloys

Delivered prices of smelters' aluminum ingot per pound, in lots of 10,000 lb. or more.

Piston alloy D132 24@25c. No. 12 alloy 22½@23c; No. 13 alloy, max. .30 copper, 26@26½c.

Deoxidizing grades: No. 1, 24@25c; No. 2, 22½@23½c; No. 3, 20½@21½c; No. 4, 19¾@20½c.

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Tri-State Concentrates

Joplin, Oct. 1, 1957

(a) *Blende*	*Per Ton*
Prime coarse (60% zinc)	$56
Flotation, 60% zinc	$56

(a) Effective July 8, 1957

Galena	
Coarse and flotation, 80% lead	(a)$170.52

(a) Effective June 11, 1957

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Brass and Bronze Ingot

85-5-5-5 (No. 115) 27¾c; 80-10-10 (No. 305) 31¾c; 88-10-2 (No. 215) 35c. Yellow, (No. 405) 22½c, and upward. Manganese bronze (No. 420) 25c.

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Smelters' Copper Scrap Prices

Custom smelters' buying prices for scrap, carload lots, refinery:

No. 1 copper and wire, 21½c; No. 2 heavy copper 20c; light copper 17¾c; refinery brass, 19c.

Dealers' Scrap Prices

Dealers' buying prices, f.o.b. New York or equivalent freight points, for wholesale quantities, in cents per lb.

No. 1 copper wire	18½@19
Heavy copper & wire, mixed	17@17½
Light copper	15@15½
No. 1 composition	17@17½
Composition turnings	16½@17
Light brass	9½@10
Yellow brass turnings, mix	9½@10
Heavy yellow brass, mixed	11½@12
Auto radiators, unsweated	13@13½
Brass pipe, cut	14@14½
Rod brass turnings, No. 1	12½@13
Rod ends, brass	13@13½
New soft brass clips	14½@15
Cast aluminum, mixed	10@10½
Aluminum crankcases	10@10½
Aluminum clips, new soft	13@13½
Sheet aluminum, old clean	10@10½
Aluminum turnings, clean	6½
Zinc die cast, mixed	1¾
Zinc die cast, new	3
Old zinc	3
New zinc clips	4½
Soft or hard lead	9½@10
Battery plates	4½
Babbitt mixed	11@11½
Linotype or stereotype	11½@12
Electrotype	10½@11
Solder joints close cut	15½@16
Block tin pipe	75@76
Autobearing babbitt	39@40
Monel clips, new	35@40
Monel sheet, clean	35@40
Nickel, rod ends	50@55
Nickel, clippings	50@55